

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

ASAO, YOSHIHITO, et al.

Appln. No. Continuation Application of
pending prior Appln. No.09/065,571

Prior Group Art Unit: 2834

Confirmation No.: Unknown

Prior Examiner: K. Tamai

Filed: March 27, 2001

For: ROTOR FOR DYNAMO-ELECTRIC MACHINE AND METHOD OF
MANUFACTURING THE SAME

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Amend the specification by inserting before the first line the sentence:

This is a Continuation of Application No. 09/065,571 filed April 24, 1998, the disclosure
of which is incorporated herein by reference.

IN THE CLAIMS:

Please cancel claims 1-6 without prejudice or disclaimer.

Please add the following new claims 7-16.

7. A rotor of a dynamo-electric machine, said rotor comprising:

a rotor coil comprising a bobbin having a first flange and a second flange opposed

PRELIMINARY AMENDMENT

Continuation of pending prior U.S. Appln. No. 09/065,571

to each other, and a conductor wound around said bobbin, wherein current flows through said conductor to generate magnetic flux;

a field core assembly covering said rotor coil, said field core assembly comprising a first field core member and a second field core member respectively having triangular magnetic poles alternately meshed with each other; and

a plurality of magnetic portions provided between adjacent ones of said triangular magnetic poles in an orientation that reduces the leakage of magnetic flux between said triangular magnetic poles, and wherein said plurality of magnetic portions abut at least one of said first flange and said second flange in order to join said plurality of magnetic portions to said bobbin.

8. A rotor of a dynamo-electric machine as claimed in Claim 1, wherein said plurality of magnetic portions comprise magnetic members made of a magnetic material, and covers covering said magnetic members, and wherein said covers and said bobbin are made of a same resin material.

9. A rotor of a dynamo-electric machine as claimed in Claim 1, wherein fitting portions are formed on the sides of said magnetic portions to prevent said magnetic portions from shifting radially outward, said fitting portions fitting against sides of said triangular magnetic poles.

10. A rotor of a dynamo-electric machine as claimed in Claim 1, wherein engaging portions are formed on ends of said magnetic portions and engage with ends of said triangular

PRELIMINARY AMENDMENT

Continuation of pending prior U.S. Appln. No. 09/065,571

magnetic poles to prevent said magnetic portions from shifting axially.

11. A rotor of a dynamo-electric machine as claimed in Claim 1, wherein said plurality of magnetic portions are formed with a resin mixed with ferrite-based iron filings.

12. A rotor of a dynamo-electric machine as claimed in Claim 2, wherein said plurality of magnetic portions are formed with a resin mixed with ferrite-based iron filings.

13. A rotor of a dynamo-electric machine as claimed in Claim 1, wherein said bobbin is formed with a resin.

14. A rotor of a dynamo-electric machine as claimed in Claim 2, wherein said bobbin is formed with a resin.

15. A rotor of a dynamo-electric machine as claimed in Claim 1, wherein said plurality of magnetic portions and said bobbin are formed as a unitary structure by injection molding.

16. A rotor of a dynamo-electric machine, said rotor comprising:

a rotor coil comprising a bobbin having a first flange and a second flange opposed to each other, and a conductor wound around said bobbin, wherein current flows through said conductor to generate magnetic flux;

PRELIMINARY AMENDMENT

Continuation of pending prior U.S. Appln. No. 09/065,571

a field core assembly covering said rotor coil, said field core assembly comprising a first field core member and a second field core member respectively having triangular magnetic poles alternately meshed with each other; and

a plurality of magnetic portions provided between adjacent ones of said triangular magnetic poles in an orientation that reduces the leakage of magnetic flux between said triangular magnetic poles, and wherein said plurality of magnetic portions abut at least one of said first flange and said second flange in order to join said plurality of magnetic portions to said bobbin;

wherein said plurality of magnetic portions comprise magnetic members made of a magnetic material, and covers covering said magnetic members, and wherein said covers and said bobbin are made of a same resin material, and

wherein said plurality of magnetic portions are formed with a resin mixed with ferrite-based iron filings.

PRELIMINARY AMENDMENT

Continuation of pending prior U.S. Appln. No. 09/065,571

REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,



Grant K. Rowan

Registration No. 41,278

SUGHRUE, MION, ZINN,
MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Washington, D.C. 20037-3213
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

Date: March 27, 2001